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NOV 1 3 2001

OIPE

## TECH CENTER 1600/2900

RAW SEQUENCE LISTING

PATENT APPLICATION: US/09/545,334B

DATE: 07/26/2001 TIME: 10:33:53 9/K.T. 11-15-01

Input Set : A:\0803.SEQLIST.txt

Output Set: N:\CRF3\07262001\I545334B.raw

ENTERED

4 5	<110			CANT	: Zir eff	nselm	neie	r, Cl	hris							E	NTE
6				, Dw:													
	<120	)> T	ITLE	OF :	INVE	1OIT	1: Re	egula	ated	Exp	ress	ion o	of Ge	enes	in E	Plant	
9	-1.00		eeds														
					RENCE												
1.4	<140	)> Ct	IDDE	MI AI	PLIC	CATIC	ON NO	JMBEE	R: US	3 09,	/545	, 3341	3				
16	<150	. > CC	TUD STUD	VDDI VI. E.1	LICAT	TON	MITME	2000-	· U4 - (	) / :							
					ING E					00/12	49,84	ł 4					
					SEQ				. 10								
					Fast				lows	Vers	sion	3.0					
25	<210	> SE	Q II	NO:	1	~						•••					
	<211				808												
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					Zea	mays											
	<220				an a												
3.7 2.T	<221	> NA	ME/K	EY:	(1).	, 1	60E \										
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35						tac	cta	cta	cta	acc	aaa	cta	ato		+ ~ ~	tct	40
36	Met	Ala	Val	Val	Tyr	Tvr	Leu	Leu	Leu	Ala	. 999	Len	Tle	Ala	Cve	Ser	48
37	1				5	-1-				10		БСС	110	mu	15	561	
39	cat	gca	cta	gcg	gca	ggc	acg	ctt	gcg	ctc	gga	gaa	gat	cqc	aac	cgt	96
40	His	Ala	Leu	Ala	Ala	Gly	Thr	Leu	Ala	Leu	Gly	Ğlu	Āsp	Arg	Ğĺу	Arg	
41				20					25					30			
43	CCC	tgg	cca	gcc	ttc	ctc	gcc	gcg	ctg	gcc	ttg	gac	ggc	aag	ctc	cgg	144
44 45	PIO	Trp	Pro 35	Ala	Phe	Leu	Ala		Leu	Ala	Leu	Asp		Lys	Leu	Arg	•
47	acc	gac			aaa	3.00	aca	40	~~~	+			45				
48	Thr	Asp	Ser	Asn	gcg Ala	Thr	Δla	Δla	ycc ∆1a	Ser	Thr	yac	Dho	ggc	aac	atc	192
49		50					55	mu	mu	Der	1111	60	FIIE	СТУ	ASII	тте	
51	acg	tcg	gcg	ctc	ccg	gcg		qtc	cta	tac	cca		tcc	acσ	aac	gac	240
52	Thr	Ser	Ala	Leu	Pro	Ala	Ala	Val	Leu	Tyr	Pro	Ser	Ser	Thr	Gly	Asp	210
53	65					70					75				_	80	
55	ctg	gtg	gcg	ctg	ctg	agc	gcg	gcc	aac	tcc	acc	ccg	ggg	tgg	ccc	tac	, 288
56	Leu	Val	Ala	Leu	Leu	Ser	Ala	Ala	Asn		Thr	Pro	Gly	${\tt Trp}$	Pro	${ t Tyr}$	
57 59	200	2+4	~~~	++-	85					90					95		
60	Thr	alc Tla	y Cg	Dho	cgc	ggc	cgc	ggc	cac	tcc	ctc	atg	ggc	cag	gcc	ttc	336
61	1111	TTE	нта	100	Arg	СТУ	Arg	СТА	105	ser	Leu	мет	СТА		Ala	Phe	
63	qcc	ccc	aac		gtg	atc	atc	aac		aca	tcc	cta	aaa	110	aac	aaa	201
64	Ala	Pro	Gly	Gly	Val	Val	Val	Asn	Met	Ala	Ser	Len	Glv	Aen	Δla	g C C Δla	384
65			115	4			<b>-</b>	120					125	-12P	u	u	
67	gcc	gcc	gcg	ccg	ccg	cgc	gtc	aac	gtg	tcc	gcg	gac	ggc	cqc	tac	gta	432
68	Ala	Ala	Ala	Pro	Pro	Arg	Val	Asn	Val	Ser	Ala	Asp	ĞÎy	Arg	Tyr	Val	
69		130					135					140					

RAW SEQUENCE LISTING
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71 72	gac	gcc	ggc	ggc	gag	cag	gtg	tgg	atc	gac	gtg	ctg	cgc	gcg	tct	ctg	480
73	145					150					155				Ser	160	
75 <sub>.</sub>	gcg.	cgc	ggc	gtg	gcg	ccg	cgc	tcc	tgg	acc	gac	tac	ctc	tac	ctc	acc	528
76 77	Ala	Arg	Gly	Val	Ala 165	Pro	Arg	Ser	Trp	Thr	Āsp	Tyr	Leu	Tyr	Leu	Thr	320
79	atc	aac	aac	200		taa	220	~~~		170					175		
80	Val	99C	61.	mhr	Tau	Coc	aac	yca	ggc	atc	agc	ggc	cag	gcg	ttc	cgc	576
81	Val	ату	СТУ	1111	ьeu	ser	ASI	Ата		TTE	Ser	GTA	G⊥n		Phe	Arg	
				180					185					190			
83	cac	ggc	cca	cag	ata	tet	aac	gtg	ctg	gag	atg	gac	gtt	atc	acc	ggc	624
84	HIS	GIY	Pro	GIn	He	Ser	Asn		Leu	Glu	Met	Asp	Val	Ile	Thr	Gly	
85			195					200					205				
87	cat	ggg	gag	atg	gtg	acg	tgc	tcc	aag	cag	ctg	aac	gcg	gac	ctg	ttc	672
88	His	Gly	Glu	Met	Val	Thr	Cys	Ser	Lys	Gln	Leu	Asn	Ala	Asp	Leu	Phe	
89		210					215					220					
91	gac	gcc	gtc	ctg	ggc	ggg	ctq	qqq	caq	ttc	gga	ata	atc	acc	cgg	acc	720
92	Asp	Ala	Val	Leu	Gly	Gly	Leu	Glv	Gln	Phe	Glv	Va 1	Tle	Thr	Arg	Δla	720
93	225				_	230		*			235				9	240	
95	cqq	atc	aca	ata	σασ	cca	αcα	cca	aca	caa		caa	taa	ata	cgg	240 ata	7.00
96	Arg	Ile	Ala	Val	Glu	Pro	Δla	Pro	Δla	Δra	7 l a	Ara	Trn.	y cy	Arg	Tou	768
97	5			,	245	110	mu	LIO	лта	250	чта.	ALG	тър	Val		Leu	
99	ata	tac	200	n a n		aca	~~~	++-							255		
100	Val	Tur	ucc Thr	yac Nan	Dho	909 - 212	315	LLC	ayc	gee	gac	cag	gag	cgg	ctg	acc	816
101	Vul	тут	1111	260		на	Ата	PHE			Asp	GIn	Glu			Thr	
101	~~~	000							265					270			
104	315	Des	Cyg	Doc	gge	gge	ggc	ggc	gcg	tcg	ttc	ggc	ccg	atg	agc	tac	864
	Ala	PIO	Arg	Pro	GIY	СТА	GIY			Ser	Phe	Gly	Pro	Met	Ser	Tyr	
105			275					280					285				
107	gtg	gaa	ggg	tcg	gtg	ttc	gtg	aac	cag	agc	ctg	gcg	acc	gac	ctg	gcg	912
108	vaı	Glu	GIY	Ser	Val	Phe			Gln	Ser	Leu	Ala	Thr	Asp	Leu	Ala	
109		290					295					300					
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112	Asn	Thr	Gly	Phe	Phe	Thr	Asp	Ala	Asp	Val	Ala	Arg	Ile	Val	Ālā	Leu	
113	305					310					315					320	
115	gcc	ggg	gag	cgg	aac	gcc	acc	acc	gtg	tac	agc	atc	gag	qcc	acg	ctc	1008
116	Ala	Gly	Glu	Arg	Asn	Ala	Thr	Thr	Val	Tyr	Ser	Ile	Ğlu	Āla	Thr	Leu	1000
117					325					330					335	Lou	
119	aac	tac	gac	aac	qcc	acq	qcq	aca	aca	aca	at.a	gac	саσ	άaα	ctc	aca	1056
120	Asn	Tyr	Asp	Asn	Ála	Thr	Ala	Ala	Ala	Ala	Val	Asn	Gln	Glu	Leu	λla	1030
121		-	-	340					345		V41	пор	GIII	350	ьеu	Ата	
123	tcc	ata	cta	aac	acσ	cta	age	tac		паа	aaa	tta	~~~		cag	~~~	1104
124	Ser	Val	Len	Glv	Thr	Leu	Sor	Tur	Val	Clu	237	Pho	909	Dha	Gln	ege	1104
125		,	355	011	1111	пси	DCI	360	vai	GIU	GLY	Pile		Pne	GIN	Arg	
127	gac	ata		tan	200	~~~	++-						365				
128	) ac	y cy Val	CON	Trr	mh~	y cy	Dh.	Tan	yac	cgg	ycg	cac	ggc	gag	gag	gtg	1152
129	rsh	AGT	Set	T A T.	TIII.	HTG		ьeu	ASP	arg	val		GLY	Glu	Glu	Val	
131	~~~	370			_ 4		375					380					
132	yeg N1-	CCC	aac	aag	crg	ggg	ctg	tgg	cgg	gtg	ccg	cac	ccg	tgg	ctc	aac	1200
	ATG	ьeu	Asn	ьуs	Leu	GLY	Leu	Trp	Arg	Val		His	Pro	${\tt Trp}$	Leu	Asn	
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140	Lys	Gly	Ile	Leu	Gln	Ğĺy	Thr	Asp	Ile	Val	Glv	r Pro	Leu	Tle	• Val	Tyr	1290
141				420		_		•	425		1			430		- <b>- y</b> -	
143	ccc	ctc	aac	aaa	tcc	atg	tgg	gac	gac	aac	ato	r t.co	r aca			ccg	1344
144	Pro	Leu	Asn	Lys	Ser	Met	Trp	Asp	Asp	Glv	Met	Ser	· Ala	Δla	, αcy Thr	Pro	1244
145			435	•			L	440		1		· ber	445		1 1111	FIO	
147	tcg	gag	gac	gtg	ttc	tac	qcq	ata	tca	ct.a	ato	ttc			r ata	gcg	1392
148	Ser	Glu	Asp	Val	Phe	Tyr	Ālā	Val	Ser	Leu	Len	Phe	Ser	Ser	val.	Ala	1392
149		450				*	455					460		OCI	Vul	ALG	
151	ccc	aac	gac	ctq	qcq	agg	cta	cao	σασ	саσ	aac			ato	cta	cgc	1440
152	Pro	Asn	Asp	Leu	Ala	Arg	Leu	Gln	Glu	Gln	Asn	Ara	Δra	Tle	Lou	Arg	1440
153	465		-			470				02	475		1119	110	шеш	480	
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156	Phe	Cys	Asp	Leu	Āla	Gly	Ile	Gln	Tvr	Lvs	Thr	Tvr	Leu	Δla	Ara	Uic	1400
157		_	-		485				-1-	490			пси	пта	495		
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160	Thr	Āsp	Arq	Ser	Asp	Trp	Va 1	Ara	His	Phe	Glv	Δla	Ala	Clu	Trn	Aan	1536
161		-		500		<b>L</b>		9	505	1 110	OLY	пта	AIG	510		ASII	
163	cgc	ttc	gtg	qaq	atq	aaσ	aac	ааσ		gac	CCC	aan	agg	210	ata	taa	1504
164	Arg	Phe	Val	Glu	Met	Lvs	Asn	Lvs	Tvr	Asn	Dro	Live	Arg	Tou	Lou	Con	1584
165			515			-1-		520	-11	msp.	110	цуз	525	ьeu	ьeu	ser	
167	ccc	ggc	caq	gac	atc	ttc	aac						343				1.600
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198	Ala	a Ar	g Gly	y Va	l Ala	a Pro	o Ar	g Sei	Tr	Thi	r Asp	Туз	r Lei	туј	: Let	ı Thr
199					16:	5				170	)				179	5
200	Va.	L Gl	y Gly	y Thi	r Lei	ı Sei	r Ası	n Ala	Gly	y Ile	e Ser	Gly	/ Glr	ı Ala	ı Phe	Arg
201				180	)				185	5				190	)	
202	His	G1	y Pro	o Gli	n Ile	e Sei	: Ası	n Val	. Le	ı Glu	ı Met	Asp	Va]	. Ile	Thi	Gly
203	***		195					200					205	5		
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205		210		_			215					220	)			
206	ASP	Ala	ı val	. Lei	ı G13	7 Gly	, Lei	ıGly	Glr	) Phe	e Gly	' Val	. Ile	Thr	Arg	Ala
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209 210	Wa 1	M	. mb		245			_,		250					255	
211	val	тут	Thr	ASP	Pn∈	Ala	A La	1 Phe			Asp	Gln	Glu	. Arg	Leu	Thr
211	71.	Dma	. 7	260		<b>a</b> 1			265					270		
213	Ата	PIC	Arg	Pro	GLY	GTA	GIY	GLy	Ala	Ser	Phe	Gly	Pro	Met	Ser	Tyr
213	W = 1	C1	275			D1		280					285			
215	Val	290	. сту	ser	val	Pne	val	Asn	Gin	Ser	Leu			Asp	Leu	Ala
216	λen			Dho	Dha	mb	295		_			300	_			
217	305	1111	СТУ	Pile	Pile	310	Asp	АТа	Asp	Val			Ile	Val	Ala	Leu
218		Glv	clu	λνα	λαη			mb.~	37 m 1	<b></b>	315	- 1	~ 3			320
219	111.0	O <sub>1</sub>	Olu	ALY	325	Ата	1 111	Thr	vaı		ser	ile	GLu	Ala		Leu
220	Asn	Tur	Agn	Δen			<b>λ</b> 1 a	. ה ה	77-	330	17- 1	3	<b>~</b> 1	<b>a</b> 3	335	
221		-1-	11DP	340	ліц	1111	ніа	Ala	345		val	Asp	GIn		Leu	Ala
222	Ser	Va 1	Len	-		T.AII	Sar	Tyr			C1	Dh.	7 J -	350	<b>a</b> 1	_
223	201		355	OLY	1111	пец	Ser	360	Val	GIU	СТА	Pne		Pne	GIn	Arg
224	Asp	Va 1		Tvr	Thr	Δla	Dho	Leu	λan	7 22.00	17-1	TI i a	365	<b>01</b>	<b>a</b> 1	
225	E	370	001	-1-	1111	niu	375	neu	кър	Alg	Val	380	СТА	GIU	GIU	val
226	Ala		Asn	Lvs	Leu	Glv		Trp	Δνα	V = 1	Dro	200	Dro	III 2020	т	2
227	385			-1-		390	Lou		nra	Vai	395	птэ	PIO	11 p	ьеи	
228	Met	Phe	Val	Pro	Ara		Ara	Ile	Δla	Δen		λan	λνα	C1**	175.1	400
229					405		9		niu	410	rne	дър	Aly	СТУ	415	Pne
230	Lys	Gly	Ile	Leu		Glv	Thr	Asp	Tle	Val	Glv	Dro	Lou	т10	417	m
231		_		420				F	425	, 41		110	пси	430	Val	ıyı
232	Pro	Leu	Asn	Lys	Ser	Met	Trp	Asp		Glv	Met	Ser	Ala	Δla	Thr	Dro
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234	Ser	$\operatorname{Glu}$	Asp	Val	Phe	Tyr	Ala	Val	Ser	Leu	Leu	Phe	Ser	Ser	Va 1	Δla
235		450				-	455					460		001	vai	niu
236	Pro	Asn	Asp	Leu	Ala	Arg	Leu	Gln	Glu	Gln	Asn		Ara	Tle	T.eu	Δra
237	465					470					475	9	5		Lea	480
238	Phe	Cys	Asp	Leu	Ala	Gly	Ile	Gln	Tyr	Lvs	Thr	Tvr	Leu	Ala	Arσ	His
239					485				-	490		4			495	
240	Thr	Asp	Arg	Ser	Asp	Trp	Val	Arg	His		Gly	Ala	Ala	Glu	Trp	Asn
241				500					505					510		
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RAW SEQUENCE LISTING

DATE: 07/26/2001 PATENT APPLICATION: US/09/545,334B TIME: 10:33:53

Input Set : A:\0803.SEQLIST.txt

Output Set: N:\CRF3\07262001\1545334B.raw

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296	Con	etics 216:388-394 (1989).	
	<400> SEQ		
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VERIFICATION SUMMARY

PATENT APPLICATION: US/09/545,334B

DATE: 07/26/2001 TIME: 10:33:54

Input Set : A:\0803.SEQLIST.txt

Output Set: N:\CRF3\07262001\1545334B.raw